

**ISEN YNCREA MEDITERRANEE**

# **Course Offering**

**Language of Instruction: English**

*(course details are subject to change)*



***Please note: All courses are taught in English during Master 1 Fall Semester. These courses are available to Master students and also Bachelor level students with adequate prerequisites.***

### Option: Software Development / Big Data (Master 1, Fall Semester)

Module	Courses	ECTS
<b>Computer Science</b>	Data Base	5
	Development platform (GIT...)	
	Linux	
	Generative Artificial Intelligence	
<b>Platform Development</b>	Web development	5
	Python and AI application	
<b>Systems</b>	Programming Systems	5
	Networks	
	Virtualisation and cloud computing	
	Programming Security languages	
<b>Cloud Deployment</b>	Parallelisation Technique	5
	Application Programming Interface	
	Microservice	
<b>Technical Project</b>	Technical project	5
<b>Social and Human Sciences</b>	Social and Human Sciences	3
<b>English</b>	English	2
<b>Total</b>		<b>30</b>

### Option: Embedded Systems / Robotics (Master 1, Fall Semester)

Module	Courses	ECTS
<b>Computer Science</b>	Introduction to Embedded Systems	5
	Data BUS (general course)	
	Platform development (GIT...)	
	Linux	
<b>Platform Development</b>	Labview Introduction	5
	Labview FPGA	
	Python and AI application	
<b>Systems</b>	STM32 Level 1	5
	Elec analog level 2	
	Communication Protocol	
<b>Architecture</b>	Hardware Architecture IoT	5
	RTOS	
	Power/ Batteries	
<b>Technical Project</b>	Technical project	5
<b>Social and Human Sciences</b>	Social and Human Sciences	3
<b>English</b>	English	2
<b>Total</b>		<b>30</b>



### Option: E-Health (Master 1, Fall Semester)

Module	Courses	ECTS
<b>Computer Science</b>	Data Base Development platform (GIT...) Linux Generative Artificial Intelligence	5
<b>Platform Development</b>	Web development Python and AI application	5
<b>Systems</b>	System Programmation Networks Tech Parallelisation	5
<b>E-Health</b>	Biomedical Introduction to E Health Analog processing of bioelectric signals for E-Health	5
<b>Technical Project</b>	Technical project	5
<b>Social and Human Sciences</b>	Social and Human Sciences	3
<b>English</b>	English	2
<b>Total</b>		<b>30</b>

### Option: Smart Energy (Master 1, Fall Semester)

Module	Courses	ECTS
<b>Computer Science</b>	Databases Platform development (GIT...) Linux Generative Artificial Intelligence	5
<b>Platform Development</b>	Web Development Python and AI application	5
<b>Systems</b>	System Programmation Networks STM32 System Architecture UML	5
<b>Architecture</b>	Energy RTOS Hardware Architecture IoT	5
<b>Technical Project</b>	Technical project	5
<b>Social and Human Sciences</b>	Social and Human Sciences	3
<b>English</b>	English	2
<b>Total</b>		<b>30</b>

### Option: Cyber Security (Master 1, Fall Semester)

Module	Courses	ECTS
<b>Computer Science</b>	Databases Platform development (GIT...) Linux Generative Artificial Intelligence	5
<b>Platform Development</b>	Web Development Introduction to Cyber Security Level 1 Python and AI application	5
<b>Systems</b>	System Programmation Networks Security Programming Languages	5
<b>Security</b>	Crypto Level 1 Intro to Cyber Level 2 Microservice	5
<b>Technical Project</b>	Technical project	5
<b>Social and Human Sciences</b>	Social and Human Sciences	3
<b>English</b>	English	2
<b>Total</b>		<b>30</b>

### Option: IoT (Master 1, Fall Semester)

Module	Courses	ECTS
<b>Computer Science</b>	Databases Platform development (GIT...) Linux Generative Artificial Intelligence	5
<b>Platform Development</b>	Web Development Python and AI application	5
<b>Systems</b>	System Programmation Networks System Architecture UML	5
<b>Architecture</b>	Architecture Hardware IoT RTOS STM32 Power/ Batteries	5
<b>Technical Project</b>	Technical project	5
<b>Social and Human Sciences</b>	Social and Human Sciences	3
<b>English</b>	English	2
<b>Total</b>		<b>30</b>

